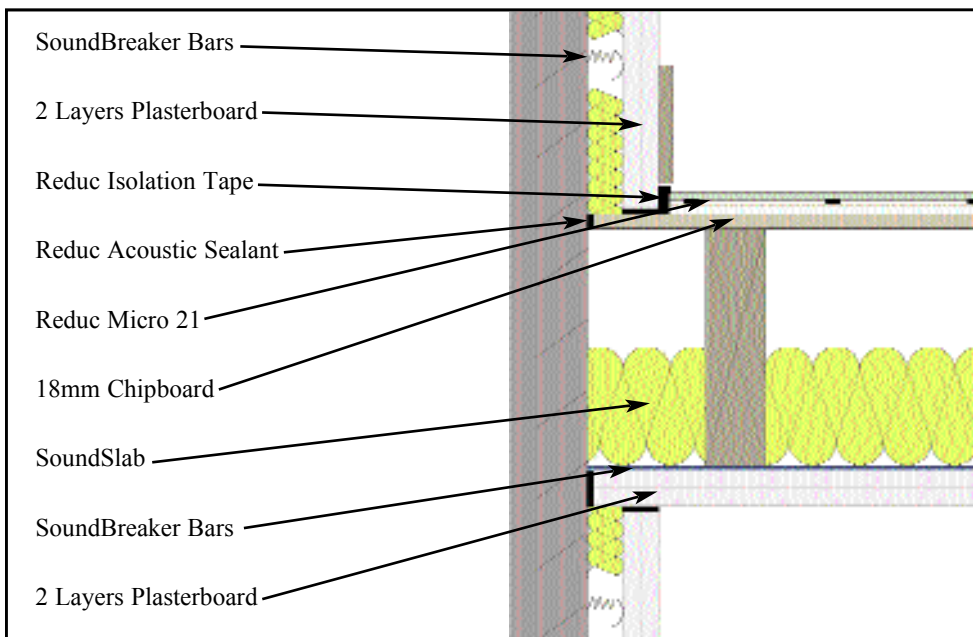


## Acoustic Floating Floor System



### Reduc Micro 21

**Reduc Micro 21** is a nominal 21mm thick, high performance, acoustic floating floor board designed for laying over existing timber floors. The substrate layers of moisture-resistant MDF and cement particle board are separated by visco-elastic sound damping strips. The underside incorporates a resilient layer of acoustic felt, which provides mechanical isolation from the existing floor structure.



**Reduc Micro 21** damps vibration and attenuates both airborne sound and impact noise passing through floors.

The moisture-resistant upper surface means the same acoustic flooring can be used throughout the building, including kitchens and bathrooms. The acoustic felt on the underside will contour over minor irregularities in the surface of the floor being treated.

### Application

**Reduc Micro 21** has been designed to enable Specifiers to exceed Building Regulation requirements with minimum loss in room height when upgrading separating floors.

### Technical Advice and Acoustic Testing

Highly qualified and experienced building and acoustic engineers are available to discuss all aspects of acoustic performance requirements and can prepare specifications and effective installation instructions to ensure optimum performance is achieved. They can also undertake pre- and post-installation testing for airborne and impact sound insulation, if required. Further details are available on request.

### Operating Temperature

**Reduc Micro 21** is suitable for use at normal building temperatures.

### Fire Performance

**Reduc Micro 21** will not add significantly to any existing fire hazard when properly installed.

## Dimensions and Weight

Reduc	Nominal Thickness mm	Overall Board Dimensions Excluding Lap Joint	Laid Area per Board Allowing for Lap Joint	Weight	
				Per m <sup>2</sup>	Per Board
Micro 21	21	1175mm x 575mm	0.675m <sup>2</sup>	18kg	12kg

## Building Regulation Requirements

Building Regulations Approved Document E (England and Wales) and Building (Scotland) Regulations Section 5 call for the following standards to be achieved for all timber and concrete floors:

Building Regulations Approved Document E (England and Wales) 2003	Airborne Sound		Impact Sound
	Site Test Result D <sub>nT,w</sub> + C <sub>tr</sub> dB	LabTest Result R <sub>w</sub> dB	Site Test Result L' <sub>nT,w</sub> dB
Separating Floors - Conversions	43 or greater	n/a	64 or less
Separating Floors - New Build	45 or greater	n/a	62 or less
Internal Floors - Conversions and New Build	n/a	40 or greater	n/a

Building (Scotland) Regulations 2004 Section 5	Airborne Sound	Impact Sound
	D <sub>nT,w</sub> dB	L' <sub>nT,w</sub> dB
New Build and Conversions	52 or greater	61 or less

## Acoustic Performance

Detailed below are the anticipated acoustic performance figures for **Reduc Micro 21** when laid over a typical timber floor construction. Data for other floor constructions is available on request.

Typical Floor Construction	Airborne Sound			Impact Sound
	Site Test Result D <sub>nT,w</sub> dB	Site Test Result D <sub>nT,w</sub> + C <sub>tr</sub> dB	LabTest Result R <sub>w</sub> dB	Site Test Result L' <sub>nT,w</sub> dB
<b>Reduc Micro 21</b> overlaid onto 18mm chipboard with 100mm <b>SoundSlab</b> fitted between 50mm x 225mm timber joists at 400mm centres and 2 layers of 12.5mm plasterboard to form the ceiling below	52	44	*58	57
As above incorporating <b>SoundBreaker Bars</b> to de-couple the ceiling below	58	51	*64	49
<b>Reduc Micro 21</b> overlaid onto 22mm timber floorboards with 100mm <b>SoundSlab</b> between timber joists and 30mm lath and plaster ceiling in good condition or single layer plasterboard	52	44	*58	57

\* The R<sub>w</sub> figures quoted above apply to domestic applications only. Details for commercial applications are available on request.

## Flanking Transmission

The performance figures quoted above are based on test results for timber and concrete floors and can only be expected if the building design and construction has followed good practice to ensure all potential flanking paths have been eliminated. In order for wall and floor constructions to be fully effective, extreme care should be taken to correctly detail the junctions between the separating wall or floor and the associated elements such as external walls and any penetrations. If junctions are incorrectly detailed, the acoustic performance will be limited and Building Regulation requirements may not be achieved in practice.

## Packaging and Handling

**Reduc Micro 21** boards are packed on non-returnable wooden pallets. Boards should be stored inside and under cover in a dry, well-ventilated area. They should be kept flat and off the ground. Care should be taken when handling to avoid damage.